

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/673,488	09/30/2003	Yukio Sudo	Q77456 1526		
7590 07/05/2006			EXAMINER		
SUGHRUE MION, PLLC			YANG, NELSON C		
2100 Pennsylvania Avenue, NW Washington, DC 20037-3213			ART UNIT	PAPER NUMBER	
			1641		
			DATE MAILED: 07/05/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
Office Action Summan		10/673,488		SUDO, YUKIO				
	Office Action Summary	Examiner		Art Unit				
		Nelson Yan	<u> </u>	1641				
Period fo	- The MAILING DATE of this communication ap r Reply	pears on the o	cover sheet with the c	orrespondence ad	Idress			
WHIC - Exten after 5 - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR REPL HEVER IS LONGER, FROM THE MAILING Designs of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statuted ply received by the Office later than three months after the mailing dispatent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS .136(a). In no event d will apply and will of te, cause the applic	S COMMUNICATION I, however, may a reply be time expire SIX (6) MONTHS from ation to become ABANDONE	N, nely filed the mailing date of this o D (35 U.S.C.§ 133).	· ·			
Status								
1)⊠	Responsive to communication(s) filed on 30 s	September 20	03 .					
, _								
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4) 🖂	4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)	7 6)							
7)	Claim(s) is/are objected to.							
8) Claim(s) 1-18 are subject to restriction and/or election requirement.								
Application	on Papers							
9) 🔲 -	The specification is objected to by the Examin	ier.						
10) 🔲 -	The drawing(s) filed on is/are: a)☐ ac	cepted or b)	objected to by the E	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment	(s)							
1) Notice	(PTO-413)							
2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	,, <u>,</u>	Paper No(s)/Mail Da Notice of Informal P	nte	O_152\			
- —	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 No(s)/Mail Date	~)	6) Other:	atent Application (PT)	U-10 <i>2)</i>			

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1, 3-15, drawn to a reactive microreactor with a binding partner, classified in class 435, subclass 289.1.
 - II. Claims 2, 16-17, drawn to a method of producing a reactive microreactor with a binding partner, classified in class 427, subclass 2.11.
 - III. Claim 18, drawn to a method for detecting a target substance, classified in class435, subclass 4.
- 2. The inventions are distinct, each from the other because of the following reasons:
- 3. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the microreactor of group I can be made using a reactive group that is not a disulfon compound.
- 4. Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the microreactor can be used as a filter for removing specific analytes from a medium.

Application/Control Number: 10/673,488

Art Unit: 1641

Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions are directed toward different functions and therefore have different modes of operation and effects. The invention of group II is directed toward making a microreactor and therefore comprises a step of introducing a reactive group onto a microreactor, a step not found in group III. The invention of group III is directed toward a method of detecting a target molecule, and requires the step of contacting a sample with the microreactor, a step not found in group II.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

6. This application contains claims directed to the following patentably distinct species: antibody-ligand (drawn to claim 6), avidin-biotins (drawn to claims 7-9), nucleic acids (drawn to claims 10-13). The species are independent or distinct because are different binding agents and would bind to different anyltes.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1, binding partner is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable

Application/Control Number: 10/673,488

Art Unit: 1641

thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

7. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Application/Control Number: 10/673,488

Art Unit: 1641

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Nelson Yang whose telephone number is (571) 272-0826. The

examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Long V. Le can be reached on (571)272-0823. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

9. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nelson Yang Patent Examiner Art Unit 1641

LONG V. LE

Page 5

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1600